

CS50 AP Alternative Assignments to Pi

All programs should be done in Java/Eclipse

29 (S)

Write a Java program that spells your name backwards by reading the string with your FULL name in it from right to left. Indexer MUST move from length to 0.

30 (S)

Write a java program that calculates the perimeter of a dodecahedron with side lengths of N, where N is a random number from 1 to 40. Then calculate the area of each interior angle. Print out the results in full sentences.

31 (S) Write a java program that fills a 10 x 10 2 dimensional array with random numbers, then calculates the average value of all the entries in the array.

32 (L) Exam Grade

Write a Java program that counts backwards from a (random number from 0 to 100) by (other random number from 1 to 5). For example, if first random number is 45 then 3, it would count backwards from 45 to 0 by 3.

Printout would look EXACTLY like this: (Assume random numbers are as depicted for exemplar)

[Black Bold letters are exact output using your generated numbers]

Random Number 1: 45

Random Number 2: 3

45, 44, 43, 43, 36

35, 34, 33, 32,26

.....

.....

Run Complete

[you print no more than 10 numbers per line]